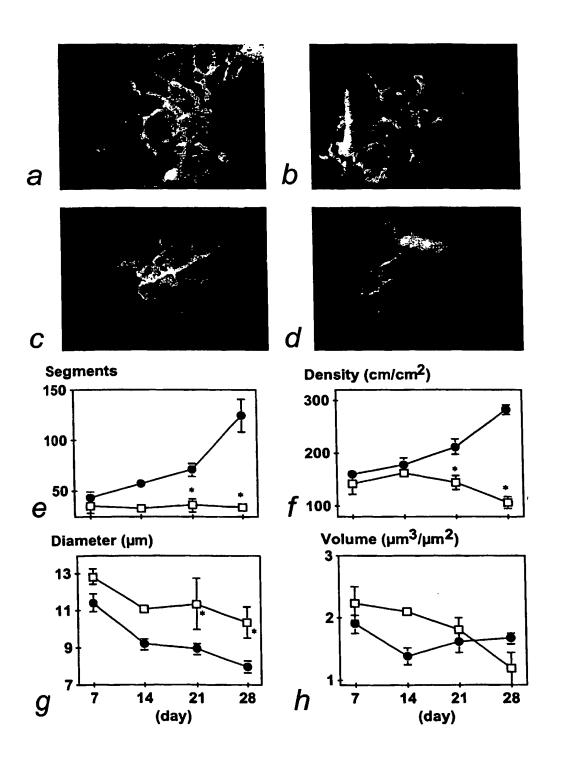
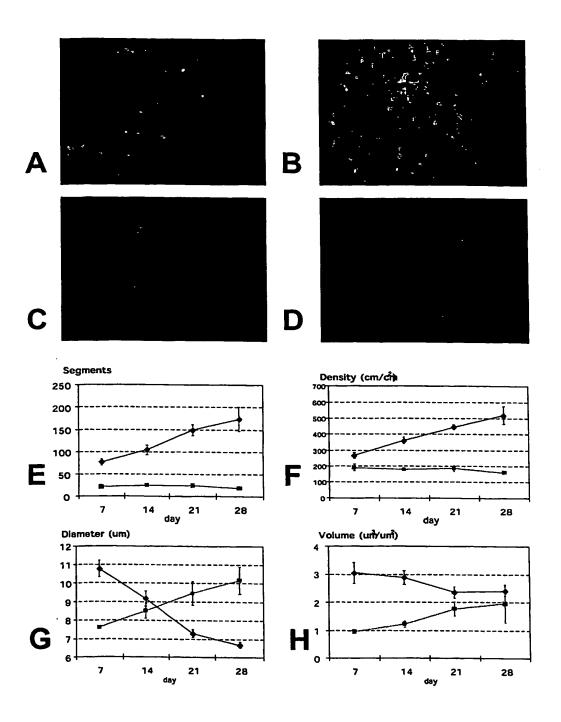


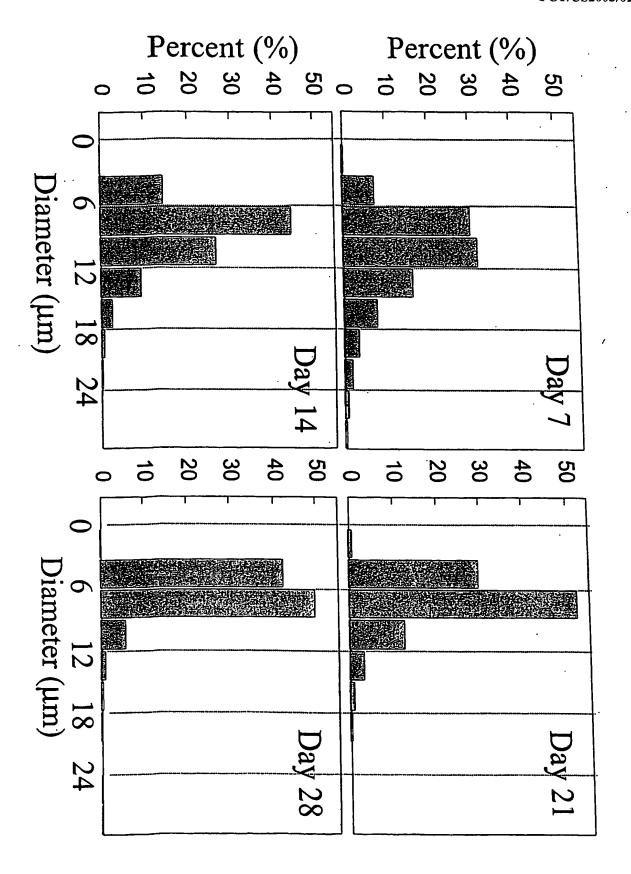
1/18



Figures 2A-2H



Figures 3A-3H



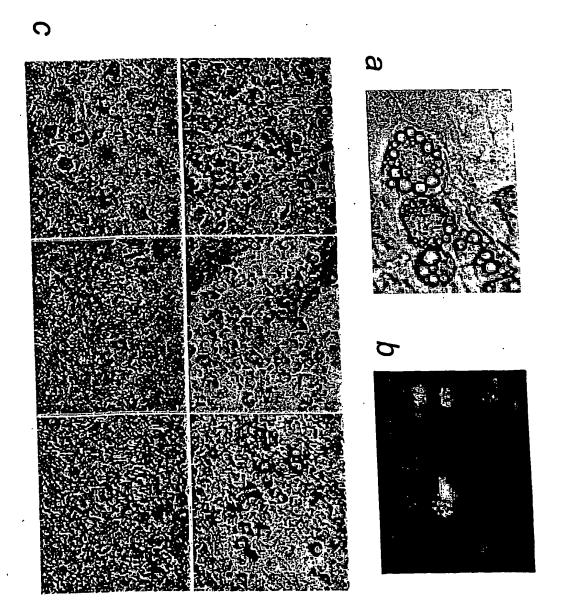
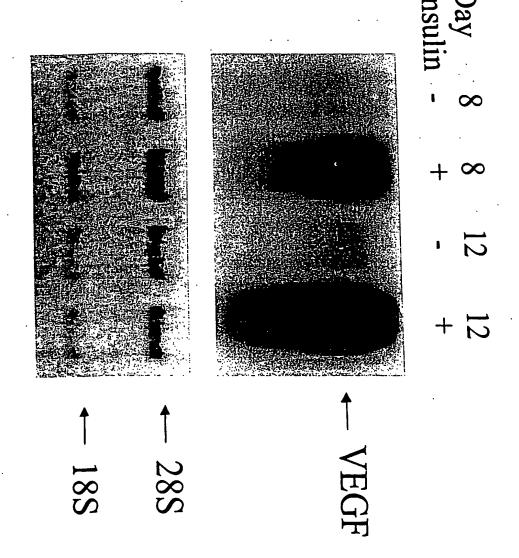
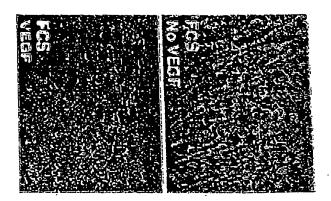
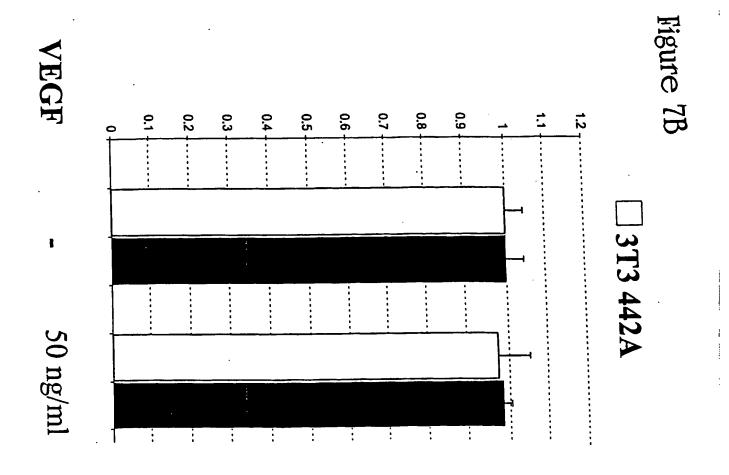


Figure (







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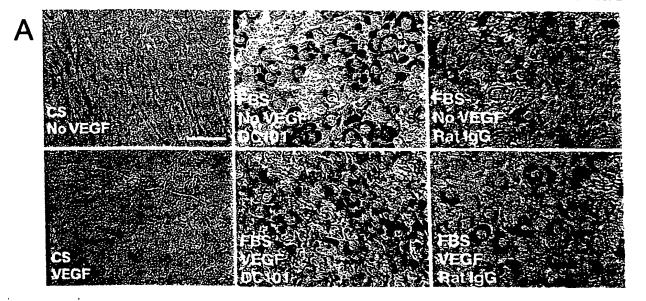
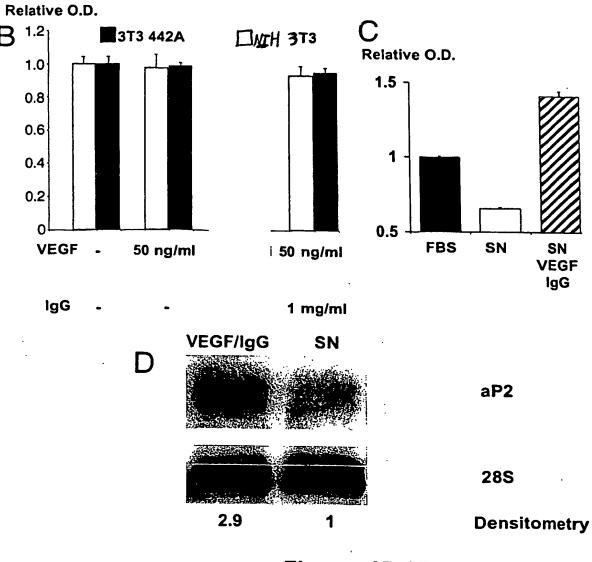


Figure 8A



Figures 8B-8D

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₩ij. 9		
Gene name	Sense primer	Antisense primer
بر ⊄ست ه	5'-ATGACAGTTTTCCTTTCCTTTGCA-3' (SEQ ID NO: 1) &	S'-CATCATGGTGGTGGAACGTAAGGA-3' (SEQ ID NO: 3)
Ang-1	5'-TTCTTCGCTGCCATTCTGACTCAC-3' (SEQ ID NO: 2)	
D an H	5'-ATGTGGCAGATCATTTTCCTAACT-3' (SEQ ID NO: 4) &	5'-CCAGTAGTACCACTTGATACCGTT-3' (SEQ ID NO: 6)
Ang-2	5'-TTTGGCTGGGATCTTGTCTTGGC-3' (SEQ ID NO: 5)	
ir Y	5'-CTGGAAGACAGCTCCTCCTCGAAG-3' (SEQ ID NO: 7) &	<'-TAATCAACATAACCATATCCAAT-3' (SEQ ID NO: 9)
aP2	5'-ATGTGTGATGCCTTTGTGGGAAC-3' (SEQ ID NO: 8)	
VEGF	5'-TCC GGA TCC ATG AAC TTT C-3' (SEQ ID NO: 10)	5'-TGG CTC ACC GCC TTG GCT-3' (SEQ ID NO: 11)
L13a	5'-GGGGCAGGTTCTGGTATTGGATG-3' (SEQ ID NO: 12)	5'-CCTCGCACAGTGCGCCAGAAAATG-3' (SEQ ID NO: 13)
VEGF-B	5'-GCTGCTTGTTGCACTGCTGCAGCT-3' (SEQ ID NO: 14)	5'-TCTGCATTCACATTGGCTGTGTTC-3' (SEQ ID NO: 15)
VEGF-C	5'-ATGCACTTGCTGTGCTTCTTGTCT-3' (SEQ ID NO: 16)	5'-CTCTGTGTTATAATGTGCAGCAGC-3' (SEQ ID NO: 17)
VEGF-D	5'-CCTCATGATGTTCCATGTGTACTT-3' (SEQ ID NO: 18)	5'-TGTCTCTCTAGGGCTGCATTGGGT-3' (SEQ ID NO: 19)
Osteopontin	5'-CATGAGATTGGCAGTGATTTGCTT-3' (SEQ ID NO: 20)	5'-TCTGCTTGTGTACTAGCAGTGACG-3' (SEQ ID NO: 21)
Efrin B2	5'-AGGGACTCTGTGTGGAAGTACTGTT-3' (SEQ ID NO: 22)	5'-CTGGTCTGGCACAGTTGAGCAGTG-3' (SEQ ID NO: 23)
HIF1α	5'-GGCGGCGAGAACGAGAAAAAAG-3' (SEQ ID NO: 24) 5'-CACGTTATCAGAAATGTAAACCAT-3' (SEQ ID NO: 25)	5'-CACGTTATCAGAAATGTAAACCAT-3' (SEQ ID NO: 25)

5				in vitro	to
Pinebank	Селе пате	3T3-442A/	3T3-442A/ Preadipocyte	3T3-442A/ Adipocyte	Comments
M ODGS21	Adamts 1	€	€	①	Decreased in adipocytes (x3)
NIE_003021	Adamts8 .	N.D.	N.D.	N.D.	
U83509	angiopoietin-1	N.D.	N.D.	N.D.	Not detectable by RT-PCR
(j) Nim 007426	angiopoietin2	€	3	3	Decreased in adipocytes (XZ), Increased by PPARy DN (X27)
ا " ا ا	on cionepin	Z. D	N.D.	N.O.	
010770	angrogom	È	€	€	Increased in adipocytes (x13)
NM_00/643	CDS	Ξ	Z ,	N.D.	
NM_009868	cadherin 5	<u> </u>	<u> </u>	2	
NM_007693	Vasostatin/chromogranin A	N.D.	2	2.0	
NM_009929	procollagen, type XVIII,	N.D.	N.D.	N.D.	
M13926	G-CSF	3	3	€	Increased by PPARy DN (x5/)
NM_010217	Tissue factor	N.D.	N.D.	N.D.	
NM_007901	Edg1	N.D.	N.D.	N.D.	
NM_007909	Ephrin A2	N.D.	N.D.	N.D.	
NM_010109	Ephrin A receptor	N.D.	N.D.	N.D.	
NM_010111	Ephrin 82	3	3	3	Increased in adipocytes (x2.5)
NM_010113	EGF	N.D.	N.D.	N.D.	
NM_007912	EGFR	3	€	3	Decreased in adipocytes (x2.5), Increased by PPARy DN (x5.5)
NM_007932	endoglin	N.D.	N.D.	N.D.	
NM_010144	Ephrin B4	3	3	3	
U71126	ељ-2	N.D.	N.D.	N.D.	
NM_011808	c-ets1	N.D.	N.D.	N.D.	
NM_010168	Prothrombin kringte-1	3	3	3	
U67610	aFGF	N.D.	N.D.	N.D.	
NM_030614	FGF16	3	3	3	Increased by PPARy DN (x2.5)
M30644	bFGF	N.D.	N.D.	N.D.	
M30642	FGF4	N.D.	N.D.	N.D.	
M92416	FGF6	N.D.	N.D.	N.D.	

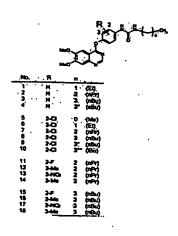
NM_008809 PDGFRb	NM_011058 PDGFRa	AF162784 PDGF b	M29464 PDGF a	NM_008737 neuropilin	NM_008713 NOS3	NM_031195 SR-A	NM_013599 gelatinase B	NM_008610 gelatinase A	NM_010784 Midkine	NM_008539 Madh1		NM_008402 Integrin aV	NM_010577 Integrin a5	M86672 IL-12A	NM_010548 IL-10	NM_010512 IGF-1	K00083 IFN r	NM_010510 IFN-b1	NM_010502 IFNA1	NM_008321 ID3	M31885 .ID1	NM_010431 Hif1a	X84046 HGF	#04596 Gro1		107297 VEGFR	X59397 KDR		3			≓ . <u>J</u> 58503 FGF7/KGF
RB.	Ra	ë	80	pilin			iase B	lase A	ō			n aV	n a5					-								7 0		VEGF-D/FIGF .	4	Ü	FGFR1 (FLG)	/KGF
N.D.	3	N.D.	N.D.	3	3	N.D.	N.D.	3	3	3	N.D.	3	3	N.D.	N.D.	N.D.	€	N.D.	N.D.	3	3	€	N.D.	N.D.	3	N.D.	N.D.	3	•	N.D.	N.D.	3
N.D.	3	N.D.	N.D.	3	•	N.D.	N.D.	3	3	3	N.D.	€	①	N.D.	N.D.	N.D.	N.D.	3	•	€	€	€	N.D.	N.D.	€	N.O.	N.D.	①	3	N.D.	N.D.	•
N.D	3	N.D.	N.D.	€	€	N.D.	N.D.	€	3	3	2. D	€	€	N.D.	N.D.	D			€	: €	€	€ €	. Z.	2 2		•	2 2	; €		•	N.O.	①
																	Increased by PPARy UN (X15)								Increased in adipocytes (x+)				Increased by PPARY UN (xc.3)			

8816 PECAM1 N.D. <		N .D.	N.D.	N.D.	VCAM-1	NM_013693 M84487
8816 PECAM1 N.D. <		ž 3	5 €	; €	tenascin C	NM_011607
8816 PECAM1 N.D. <		£	•	€	TIMP2	0
8816 PECAM1 N.D. <		€	3	3	TIMP1	NM_011593
8816 PECAM1 N.D. N.D. N.D. N.D. 191 PF 4 N.D. N.D. N.D. N.D. 8827 Placental growth factor N.D. N.D. N.D. N.D. 9869 PTGS1 N.D. N.D. N.D. N.D. 91198 Cox-2 N.D. N.D. N.D. N.D. 1198 Cox-2 N.D. N.D. N.D. N.D. N.D. 1333 Scyaz Cox-2 (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+)	Decreased in adipocytes (x2), Increased by PPARy DN (x5.5)	3	€	3	Tie1	X73960
8816 PECAM1 N.D. N.D. N.D. N.D. 1911 PF 4 N.D. N.D. N.D. N.D. 8827 Placental growth factor N.D. N.D. N.D. N.D. 8828 PTGS1 N.D. N.D. N.D. N.D. 1198 Cox-2 N.D. N.D. N.D. 1202 Restin (+) (+) (+) 1333 Scya2 (+) (+) (+) 2257 maspin (+) (+) (+) PAL-1 N.D. N.D. N.D. PAL-2 (+) (+) (+) PAL-2 N.D. N.D. N.D. TIB-2 N.D. N.D. N.D. TIB-2 N.D. N.D. N.D. TGF b2		N.D.	N.D.	N.D.	THBS3	AF102887
8816 PECAM1 N.D. N.D. N.D. N.D. 1911 PF 4 N.D. N.D. N.D. N.D. 8827 Placental growth factor N.D. N.D. N.D. N.D. 9889 PTGS1 N.D. N.D. N.D. N.D. 11198 Cox-2 N.D. N.D. N.D. N.D. 11198 Cox-2 N.D. N.D. N.D. N.D. 1198 Cox-2 N.D. N.D. N.D. N.D. 3765 Restin (+) (+) (+) (+) (+) 3785 Restin (+)		N.D.	N.D.	N.D.	TIMP2	124434
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1985 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 765 Restin (+) (+) (+) (+) 765 Restin (+) (+) (+) (+) 787 maspin (+) (+) (+) (+) 788 PAI-1 (+) (+) (+) (+) 787 PEDF (+) (+) (+) (+) 788 SPARC (+) (+) (+) (+) 789 PEDF (+) (+) (+) (+) 780 TIGF-a N.D. N.D. N.D. 780 TIGF b3 N.D. N.D. <		3	£	3	THBS2	L07803
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Piacental growth factor N.D. N.D. N.D. N.D. 1969 PTGS1 N.D. N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. N.D. 1987 Restin (+) (+) (+) (+) (+) 765 Restin (+) (+) (+) (+) (+) 257 maspin (+)		N.D.	N.D.	N.D.	THBS1	M87276
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 8827 Placental growth factor N.D. N.D. N.D. N.D. 1969 PTGS1 N.D. N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. N.D. 1987 Restin (+) (+) (+) (+) (+) 263 Scya2 (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) PAL-2 (+) (+) (+) (+) (+) 27 PEDF (+) (+) (+) (+) (+) 27 PEDF (+) (+) (+) (+) (+) (+) 283 osteopontin (+) (+) (+) (+) (+) (+) 29 TGF b2 <td< td=""><td></td><td>3</td><td>3</td><td>£</td><td>betaglycan</td><td>AF039601</td></td<>		3	3	£	betaglycan	AF039601
B816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1989 PTGS1 N.D. N.D. N.D. N.D. 1980 Cox-2 N.D. N.D. N.D. N.D. 1980 Cox-2 N.D. N.D. N.D. N.D. 1981 Cox-2 N.D. N.D. N.D. N.D. N.D. 1982 Restin (+) <td< td=""><td></td><td>3</td><td>3</td><td>3</td><td>TGFbR2</td><td>NM_009371</td></td<>		3	3	3	TGFbR2	NM_009371
8816 PECAM1 N.D. N.D. N.D. 9.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1985 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 1987 Restin (+) (+) (+) (+) (+) 257 Restin (+) (+) (+) (+) (+) (+) 57 PEDF (+) (+) (+) (+) (+) (+) (+) 263 osteopontin (+)	Increased in adipocytes (x2)	3	N.D.	N.D.	TGFBR1(ALK-5)	D28526
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1985 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 1987 Restin (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) 242 SPARC (+) (+) (+) (+) 257 PEDF (+) (+) (+) (+) 263 osteopontin (+) (+) (+) (+) 716-2 N.D. N.D. N.D. N.D. 716-3 N.D. N.D. N.D. N.D.		N.D.	N.D.	N.D.	TGF b3	M32745
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 9859 PTGS1 N.D. N.D. N.D. N.D. 198 Cox-2 N.D. N.D. N.D. N.D. 199 Cox-2		N.D.	N.D.	N.D.	TGF b2	X57413
8816 PECAM1 N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1982 PTGS1 N.D. N.D. N.D. N.D. N.D. 198 Cox-2 Restin (+) (+) (+) (+) (+) 257 Respin (+) (+) (+) (+) (+) 242 SPARC (+) (+) (+) (+) (+) 257 PEDF (+) (+) (+) (+) (+) (+) 263		N.D.	N.D.	N.D.	TGFb1	M13177
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 9852 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 1987 Restin (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) 257 PAI-1 (+) (+) (+) (+) 257 PEDF (+) (+) (+) (+) 263 osteopontin (+) (+) (+) (+) 263 osteopontin (+) (+) (+) (+) 263 osteopontin (+) (+) (+) (+) 264 osteopontin		N.D.	N.D.	N.D.	TGF-a	U65016
B816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 9828 PTGS1 N.D. N.D. N.D. N.D. 198 Cox-2 (+) (+) (+) 199 Pal-1 (+) (+) (+) (+) <td></td> <td>N.D.</td> <td>N.O.</td> <td>N.D.</td> <td>Tie-2</td> <td>D13738</td>		N.D.	N.O.	N.D.	Tie-2	D13738
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 1985 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 1987 Cox-2 N.D. N.D. N.D. N.D. 1988 Cox-2 Kestin (+) (+) (+) (+) 1989 Pcya2 (+) (+) (+) (+) (+) 1989 Cox-2 (+) (+) (+) (+) (+) 1980 Cox-2 (+) (+) (+) (+) (+) 1980 Cox-2 (+) (+) (+) (+) (+) 1980 Cox-2 (+) (+)	Very high	3	3	€	osteopontin	NM_009263
8816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 9827 PTGS1 N.D. N.D. N.D. N.D. 1986 Cox-2 N.D. N.D. N.D. N.D. 1987 Cox-2 N.D. N.D. N.D. N.D. 1988 Cox-2 N.D. N.D. N.D. N.D. 1989 Cox-2 N.D. N.D. N.D. N.D. 1980 Cox-2 N.D. N.D. N.D. N.D. 1981 Cox-2 N.D. N.D. N.D. N.D. 1982 Cox-2 N.D. N.D. N.D. N.D. N.D. 1983 Scya2 (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+) (+)		3	3	3	SPARC	NM_009242
B816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 9827 Placental growth factor N.D. N.D. N.D. N.D. 969 PTGS1 N.D. N.D. N.D. N.D. 198 Cox-2 N.D. N.D. N.D. N.D. 765 Restin (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) PAI-1 (+) (+) (+) (+) PAI-2 N.D. N.D. N.D. N.D.		3	3	€	PEDF	AF017057
816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 827 Placental growth factor N.D. N.D. N.D. N.D. PLAU (+) (+) (+) (+) 969 PTGS1 N.D. N.D. N.D. 198 Cox-2 N.D. N.D. N.D. pleiotrophin (+) (+) (+) (+) 765 Restin (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) PAI-1 (+) (+) (+) (+) (+)		N.D.	N.D.	N.D.	PAI-2	× 6490
816 PECAM1 N.D. N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. N.D. 827 Placental growth factor N.D. N.D. N.D. N.D. PLAU (+) (+) (+) (+) 969 PTGS1 N.D. N.D. N.D. 198 Cox-2 N.D. N.D. N.D. pleiotrophin (+) (+) (+) (+) 765 Restin (+) (+) (+) (+) 333 Scya2 (+) (+) (+) (+) (+) 257 maspin (+) (+) (+) (+) (+)	De	3	3	3	PAI-1	M33960
B16 PECAM1 N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. B27 Placental growth factor N.D. N.D. N.D. PLAU (+) (+) (+) 198 Cox-2 N.D. N.D. N.D. pleiotrophin (+) (+) (+) 765 Restin (+) (+) (+) 333 Scya2 (+) (+) (+))	: €	€	3	maspin	NM_009257
I816 PECAM1 N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. 827 Placental growth factor N.D. N.D. N.D. PLAU (+) (+) (+) 969 PTGS1 N.D. N.D. 198 Cox-2 N.D. N.D. pleiotrophin (+) (+) 765 Restin (+) (+)		: €	€	3	Scya2	- VM-011333
1816 PECAM1 N.D. N.D. N.D. 91 PF 4 N.D. N.D. N.D. 1827 Placental growth factor N.D. N.D. N.D. PLAU (+) (+) (+) 969 PTGS1 (+) (+) 198 Cox-2 N.D. N.D. pleiotrophin (+) (+)		: €	①	£	Restin	หผ่ ⊈ิ019765
PECAM1 N.D. N.D. PF 4 N.D. N.D. Placental growth factor N.D. N.D. PLAU (+) (+) PTGS1 (+) (+) Cox-2 N.D. N.D.		€ 3	: €	3	pleiotrophin	D90225
PECAM1 N.D. N.D. PF 4 N.D. N.D. Placental growth factor N.D. N.D. PLAU (+) (+)				N.D.	Cox-2	NIVE011198
PECAM1 N.D. N.D. N.D. Placental growth factor N.D. N.D. N.D. PLAU N.D. N.D. N.D. N.D. N.D.		; 3	; €	€	PTGS1	NM_008969
PECAM1 N.D. N.D. PECAM1 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D		N.D.	N.D	N.D.	PLAU	X 9 2589
PECAM1 N.D. N.D. N.D. N.D. N.D.		N.D.	N.D.	N.D.	Placental growth factor	NM-008827
PECAM1 N.D. N.D.		N.D	N.D.	N.D.	PF 4	AB017491
		N.D.	N.D.	N.D.	PECAM1	NM 008816

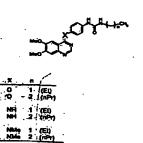
	U48800 VEGF-B	
3	•	3
3	3	•
((+) Low	3
LOW	Low	Increased in adipocytes (XZ), Decreased by PPARy DN (x)

Figures 11A-11C

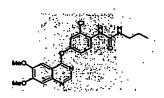
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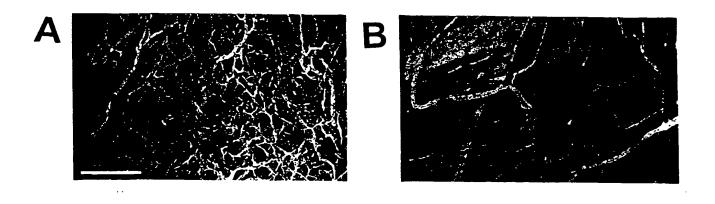


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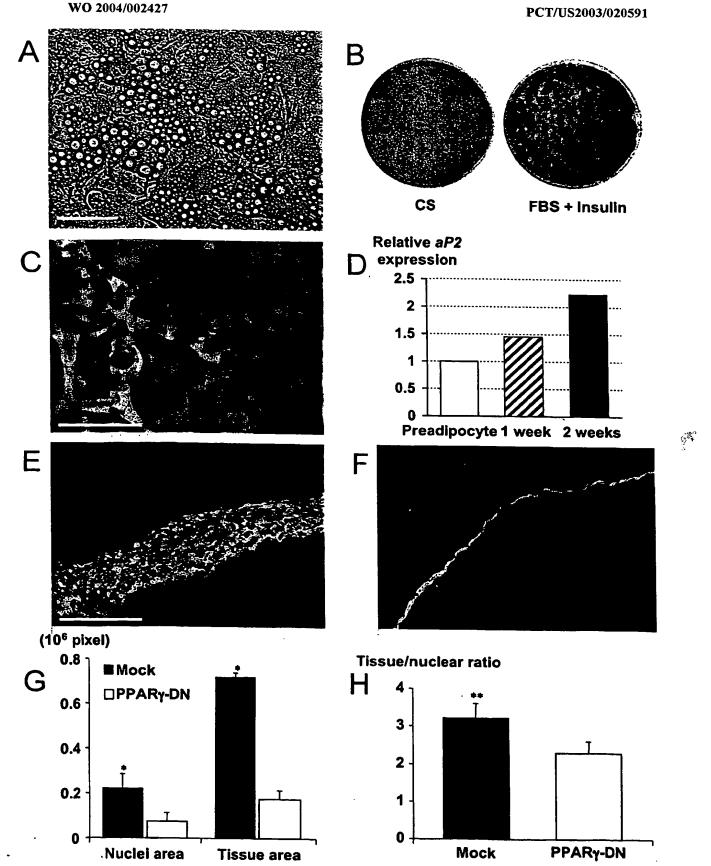
C





Figures 12A and 12B

PCT/US2003/020591



Figures 13A - 13H

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